

CLAIMS

1. A mold for molding, characterized by comprising:

- (a) a mirror-surface disc;
- (b) a stamper having a hole formed at its center, and attached to a front end surface of said mirror-surface disc; and
- (c) an inner holder for holding said stamper by means of press fit into said hole, wherein
- (d) in the course of said press fit, at least either said stamper or said inner holder is subjected to stress in excess of its yield point and plastically deformed.

2. A mold for molding according to claim 1, wherein said press fit is performed by means of plastically deforming said stamper.

3. A mold for molding according to claim 1, wherein after said press fit is performed, a front end surface of said inner holder and a front end surface of said stamper are brought onto the same plane.

4. A mold for molding according to claim 3, further comprising a stopper member for stopping said inner holder at such a position that the front end surface of said inner holder and the front end surface of said stamper are brought onto the same plane.

5. A mold for molding according to claim 1, wherein said press fit is performed in a press-fit deformation region established at each of at least two positions in a

circumferential direction of said stamper and said inner holder.

6. A mold for molding according to claim 5, wherein in said press-fit deformation regions, an outer circumferential surface of said inner holder comprises a plurality of surfaces.

7. A mold for molding according to claim 5, wherein as measured in said press-fit deformation regions, a diameter of a front end of said inner holder is greater than a diameter of a rear end of said inner holder.

8. A mold for molding according to claim 7, wherein in said press-fit deformation regions, a detachment preventive portion is formed for preventing detachment of said stamper from said inner holder.

9. A mold for molding according to claim 1, wherein the front end surface of said inner holder projects from the front end surface of said stamper.

10. A mold for molding, characterized by comprising:

(a) a first mold assembly;

(b) a second mold assembly disposed in such a manner as to be able to advance toward and retreat from said first mold assembly;

(c) an insert disposed in at least either said first or second mold assembly; and

(d) an inner holder for disposing said insert, wherein

(e) in the course of press fit, at least either said insert or said inner holder is subjected to stress in excess of its

yield point and plastically deformed.

11. A molding machine comprising a mold for molding according to any one of claims 1 to 10.

12. A molding method for molding an article by means of a mold for molding comprising a first mold assembly, a second mold assembly, and a stamper provided in at least either said first or second mold assembly and having a fine pattern formed thereon, said molding method being characterized by comprising:

(a) disposing said stamper and an inner holder in at least either said first or second mold assembly such that in the course of press fit, at least either said stamper or said inner holder is subjected to stress in excess of its yield point and plastically deformed;

(b) advancing said second mold assembly toward said first mold assembly so as to form a cavity;

(c) charging a molding material into said cavity;

(d) transferring said fine pattern formed on said stamper onto said molding material;

(e) cooling said molding material within said cavity; and

(f) retreating said second mold assembly so as to releasing a molded article.

13. A disc substrate molded by means of charging a molding material into a cavity of a mold for molding according to any one of claims 1 to 10.

14. A disc substrate according to claim 13, wherein a wide, depression-free region ranging from its inner circumferential

edge to its outer circumferential edge serves as a print region.